CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	Czechoslovakia	REPORT			. 25X1
SUBJECT	Novaky Chemical Works, Nov	raky DATE D	ISTR.	18 March	1953
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Location

- The old Novaky (Q49/T97) chemical factory is located about 18 to 20 km. north of Topolcany (P49/T64) railway station and about 7 km. south of the town of Novaky.
- 2. The new chemical plant (Novacke chemicke zavody) is about 5 km. south-west of the old plant and is near Zemianske-Kostolany (Q49/T96).

History

5. The Novaky chemical factory was built during the period of the first Csechoslovak Republic. In 1945 it was damaged by bombing, but immediately after the war the factory started up production again. In 1948 the Communist regime brought out an 8-year plan for the development and production of this factory (1948-1956). The production processes in all sections are fully mechanised and automatic.

Products

- 4. The most important product is BD.2 war gas, which is described as a new poison gas and is manufactured only in small quantities under great secrecy. The composition is not known; the following other chemical substances are produced:
 - a. Liquid chlorine, which is produced as gas and led underground to 20 converters, where it is liquified. The liquid, which is of high purity, is stored in 10,000 to 30,000-liter steel tanks and also in 30 to 50-liter steel bottles (Stahlbomben). This liquid is used for the manufacture of Perit gas. Some 80% of the production comes from the New Plant. It is shipped to the USSR, Hungary and Poland.

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b •	Salzhydrogen (sic) is produced in great purity by the New Plant: for military purposes and for laboratories in Czechoslovakia. From this is produced a special Salzhydrogen with a high iron content.
0.	Liquid caustic soda; 33% of the production is for Czechoslovak factories. The remainder is exported to the USSR, Hungary and Bulgaria. It is transported by rail in tankers.
đ.	Trichloroethylene, which is used for chemical cleaning, is produced in three grades. The first and second grades are exported to the USSR, Bulgaria, Hungary, Chine,
•	Lugkoe-Kemeny (Steinlug) ² ; 45% of production is for Czechoslovak factories. The remainder is exported to the USSR, Hungary and Rumania in 400 to 500 kg. capacity metal drums.
f.	Polyvinylchloride is a new plastic . It is made in flakes and is sent to Pardubice for heat-forming into various military products which are exported to the USSR.
g.	Chloride of lime is produced for domestic consumption; it is also exported to Hungary and Bulgaria.
h.	Plastic products are produced for domestic use; they are also exported to the USSR.
Raw	Materials
enti	sehold salt is imported from the Soviet Slatinska, salt mines in sub-Carpathia. ide and burnt-lime are brought by rail from Handlova in Slovakia. The re production of the Novaky coal mines is sent to the factory by direct line.
Tran	sportation
All desp	transportation is done by rail and the factory has 80 tankoars for the atch of finished products.
Labo	
pris	t 1,200 workers and 53 technicians are employed in this plant. Political oners from forced labor camps also provide labor. Work is carried out no shift from 6:30 a.m. to 2:30 p.m. in the following sections:
(a)	Offices.
(b)	Storehouses,
(o)	Furnaços.
(a)	Development section.
(e)	Heavy industries supply section.
	Fuel section.
	other departments work day and night in three shifts.
Wage	
Work	ers receive between 2,500 and 3,000 Kcs. per month, out of which they have

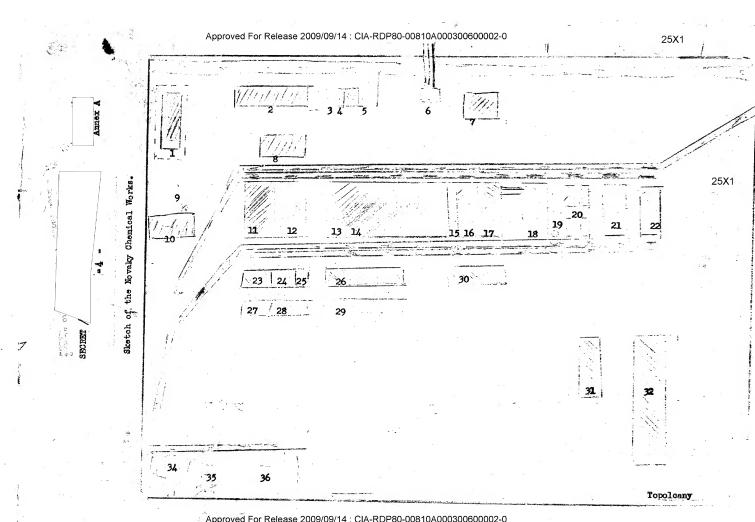
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to buy their working clothes and rubber boots. Female office employees receive between 1,500 and 2,000 Kos. per month.

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	Personalities		i			•	
10.	The managing direc	tor of this fac	ctory is Kra	hulec, (fnu)	, a former	worker.	*
	Security				10.		
11.	Ingoing and outgoi armed with service guards are dressed They wear red band Militia). The fac first aid ambulanc wall and further p	rifles and madin blue overals on their left tory has a volues. The old pl	chine pistol lls with lest t arms with unteer fire- lant is surr	s. Guard do ther belts a the initials brigade and ounded by a	ogs are use and black b "L.M." (P Red Cross three mete	d. The erets. eople's and r concret	:e
in ,	Planned Expansion						
12.	The following deve	lopments to the	plant are	planned for	1952-1953.		
	a. Extension of p	lant and instal	lation of r	new equipment			
	b. Erection of an	acetylene plan	t to serve	the whole of	Czechoslo	vakia.	
	c. Erection of the the acetylene	e largest power	station in	Czechoslove	kia, in co	nnection	with
	When all planned ender force will be increased. 1. Comment: two sentences above whole.	eased to around It is not ole	40,000 wor	kers.	port wheth	er the la	st 25X1
	2. Comment:	Possibly lye.			a * 1		25X1
	the same tells	. 0					,
	Annexes: (A) Sketch of the (B) Key to Annexes	the Novaky Chemex (A).	ical Works.	*	. ()-		
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			- 5 -		Annex B
Key	to	Sketch of the Nova	ky Chemical Wor	ks	
(1)		Underground fuel s and oil. Contains a barbed wire reno	5- to 6,000 drums	of 200 litres	halene, paraffin eachy Surrounded by
(s)					offices, telephone and political section
(3)	•	Gate-keeper's lodg	e and factory m	ilitia guardroom	
(4)		First aid post wit	h ambulance.		
(5)		Garage for works	transportation.	مدائوها محمد والروووسووي	and the same
(6)		Electrical sub-states Ostrava.	tion; receives	300,000-volt our	rent from Moravska
(7)		Plant for manufact. 4 x 15 x 30 meters detachment.			Size of buildings; litia and Soviet
(8)		Power house with a story building.	uxiliary steam-	driven electric g	generator. Single-
(9)		Factory chimney, se	erving power ho	use (No. 8 above)	•
(10)		Store-house for cerused for air condi- hydrochloric acid	tioning and for	the purification	The filters are a of ohlorine,
(11)		Storehouse for too	ls, machinery a	nd hydrogen.	ZJA
(12)		The carbonic acid		It arrives in	blocks measuring 25)
*********		10 x 13 x 60 cm. and 50 cm. in length	It is then made th.	into cylinders l	O cm. in diameter
(13)		Transformer house.	wego lada a magay	inen jaga sala arabikan masa baru	n ngapangan jiga na ang mang mang mang manggapan na manggapan na manggapan na manggapan na manggapan na manggap
(14)		Electrolysis Plant processes are descr			ned baths. The
		(a) NaCl - Na + Cl	l. (with Hg ama	lgam, Cl gas is 1	iberated)
		(b) In the second	stage, the ama	gam is separated	into Na 4 Hg.
		(c) With addition	of water, 2Na	2 H ₂ O = 2NaOH	₽ H ²
	1. II.	There is an un	iderground store rogen, sulphuric	acid, carbonio	is shed containing acid and hydro-
15)		Salt mill and baking into boilers where a 25 to 33 % salt of the electrolysis	it is boiled wi	th water and becare the brine is	o a powder, fed
16)		(17) Salt storage powder. Connected and salt mill.	with capacity by conveyer to	of 1,000 freigh the brine boiler	carloads of salt (No. 15 above)

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	Annex B.

- (18) Hydrochloric acid plant: The hydrogen and chlorine gases produced in the electrolysis plant are piped by steam to the furnaces. The hydrogen passes through two water-filled safety chambers. This shed also includes a calcium chloride plant.
- (19) Factory chimney.
- (20) Chlorine gas tanks, fed by chlorine from the electrolysis plant.
- (21) Crystallization plant. Chlorine is fed in liquid form to compressors. When it is crystallized, it is led to the underground shed and then loaded into steel cylinders and railway tankers. This underground room is refrigerated as a safety precaution. On the other side of the building there is a trichloroethylene plant. Also contains the main chemical laboratory, which is strongly guarded.
- Liquid caustic soda containing 29% HaOH is piped into large boilers kept at 350°C. It is then stabilized at 33 or 45% NaOH. Heat is provided by carbonic acid from Plant No. 14. The 33% NaOH is put into metal drums where it solidifies. These drums weigh 400 to 500 kg. filled. The titration laboratory and a section of the chemical analysis laboratories are situated on the other side of the building.
- (23) Works canteen.
- (24) Repair workshops, including rubber repair section. Heavy industry research section.
- (25) Heavy Industry Polytechnic.
- (26) Storehouse.
- (27) Pickling shed.
- (28) Raw materials storehouse (For No. 24 above).
- (29) Storehouse for chemicals.
- (30) and (31) Machinery and tool store houses.
- (32) Polyvinylchloride plant. This 4-story building is used for making polyvinylchloride and plastic materials. The upper story contains research and technological laboratories. All products are very carefully inspected.
- (33) Lime kilns, daily capacity 30 freight carloads. (Not indicated on map).
- (34) Silos Each kiln has 2 silos, one for coke and one for limestone.

 The construction of an automatic conveyer for loading coke and limestone is nearing completion.
- (35) Silos for processing lime.
- (36) Carbide plant under construction. To be completed by December 1952. New buildings are under construction near plants Nos. 28, 29, 30, 31 and 36 above. All electric cables in the factory are laid underground.

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